

Adapt AD-350 New 54 channel GPS receiver



FEATURES

- **54 channels "All-In-View" tracking**
- **Cold/Warm/Hot start time: 30/28/1 sec. (average)**
- **Superior sensitivity: -159dBm tracking**
- **Support A-GPS function**
- Reacquisition time: 0.1 sec.
- Built-in ceramic patch antenna
- Built-in rechargeable Li-ion battery
- Support standard NMEA-0183 at 38400 bps baud rate
- Compatible with Bluetooth devices with Serial Port Profile (SPP)
- Ultra low power consumption: 17 hours continuous use to stand-by time more than one week by 950mAh battery
- Time to full recharge: within 3 hours
- **Vibration sensor for power management**
- 4 LEDs display GPS, Bluetooth, low power and charging status
- Size: 77.05 (L) X 46.10 (W) X 19.50 (H) mm
- Weight: 60g (battery included)
- Non-slip back pad for a secure placement



SPECIFICATIONS

GPS Features

| | |
|--------------------|----------------------------|
| Chipset | Skytraq low power chipset |
| Frequency | L1, 1575.42MHz |
| C/A Code | 1.023MHz chip rate |
| Channels | Supports 54 channels |
| Antenna (Internal) | Built-in low noise antenna |

Sensitivity

To – 159dBm Tracking, Superior Urban Canyon Communication Protocol: Communicate with host platform via Bluetooth (class 2) serial port profile

Time to First Fix (TTFF)

| | |
|---------------|-----------------|
| Cold Start | 30 sec, average |
| Warm Start | 28 sec, average |
| Hot Start | 1 sec, average |
| Reacquisition | 0.1 sec |
| Update rate | 1 Hz (std.) |

Accuracy

| | |
|----------|------------------------------------|
| Position | 5m CEP without SA 10m 2D, RMS |
| Velocity | 0.1m/sec, without SA |
| Time | 1 μ s synchronized to GPS time |

Power

| | |
|---|--|
| Built-in rechargeable 950mAh Li-ion battery and 5V DC input | |
| Operation Current | ~55mA (Average) |
| Operation Time | Up to 17hrs, fully charged, in continuous mode |
| Charging time | 3.0hrs. (Typical) |

Datum

WGS-84

Dynamic Conditions

| | |
|---------------|---------------------------|
| Altitude | <18,000 m (60,000feet) |
| Velocity | <515 m/s (1000 knots) |
| Acceleration | <4G |
| Motional Jerk | 20m/sec ³ max. |

Interface

Bluetooth communication distance 10meters (Typical)
GPS Protocol: Default: NMEA-0183 - GGA, GSA, GSV, RMC; Skytraq Binary
Data bit: 8, stop bit: 1 (Default)

Device Size and Weight

77.05 (L) X 46.10 (W) X 19.50 (H) mm
3.03 (L) X 1.81 (W) X 0.77 (H) inch
60g (battery included)

Accessories

Car charger (12V in, 5V output)
AC adaptor (5.3V output, 500mA)

Environmental Characteristics

| | |
|-----------------------|------------------|
| Operating Temperature | - 10°C to + 60°C |
| Storage Temperature | - 20°C to + 85°C |

All specifications are subject to change without notice